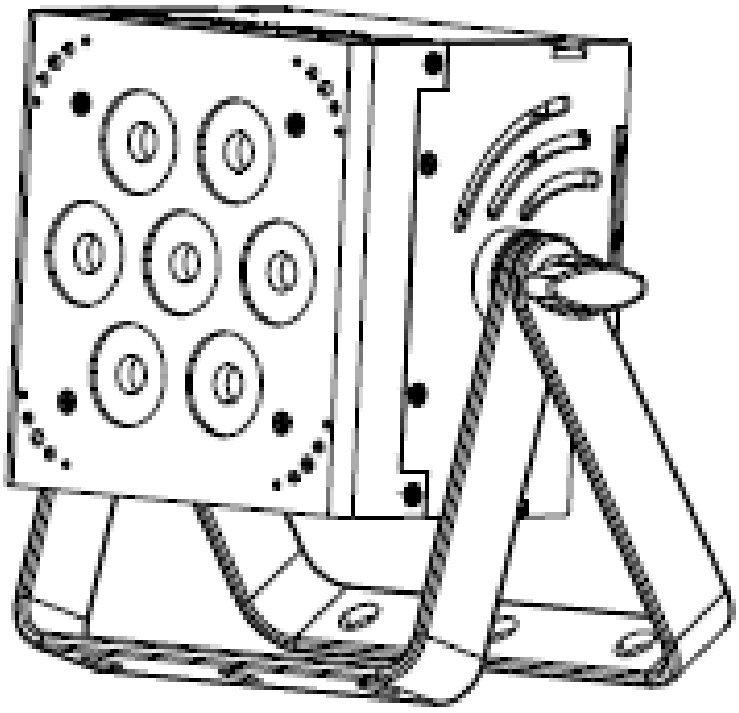
PRESTIGE

LED LIGHTING

# Glow F7W LED Flat Par

USER MANUAL



**GLOW F7W LED FLAT PAR**
**RGBW 4-IN-1**

# TABLE OF CONTENTS

**1. Summary ..... 3**

Product Introduction 3

Content List 3

**2. Safety Information 3**

Safety notes 3

Safety instructions 4

**3. Product diagram 4**

**4. Features 5**

**5. DMX Control 5**

**6. Display Operation 8**

**7. Menu Instructions 9**

Operating instructions: 11

Details of In-built program (Pr- -) 11

**8. Operating Control Instructions 12**

Master/Slave 12

**9. XLR cable connecting 12**

XRL cable 12

**10. Wiring diagram 13**

**11. Trouble Shooting 14**

**12. Technical Specifications 15**

# 1. SUMMARY

Thank you for purchasing our Glow F7W LED Flat Par lighting. Please read these instructions carefully before operating the system to avoid any possible damage or misuse.

## PRODUCT INTRODUCTION

The Glow F7W LED Flat Par has a light, stylish design and uses high power 4-in-1 LEDs. It's most prominent features are it's long life span, low power consumption, good color mixing effects and high brightness. Each LED is made of R, G, B, and W LED chips, and can be independently dimmed and adjusted. The built-in programs include dimming, strobe, gradual change, and fading.
An international standard DMX 512 signal is recommended for best results.

## CONTENT LIST

- GLOW F7W LED FLAT PAR (x1)
- DMX signal cable (x1)
- Power-in cable (x1)
- The User Manual (x1)
- Warranty Card (x1)

# 2. SAFETY INFORMATION

## SAFETY NOTES

Seek advice from a professional prior to authoring any repairs
Always ensure the system is disconnected from the power source before assembling, deconstructing and moving
Avoid direct eye exposure when in use

## SAFETY INSTRUCTIONS

Ensure the power supply voltage corresponds with the required voltage for the lights, and is within the range of the required technical restrictions.

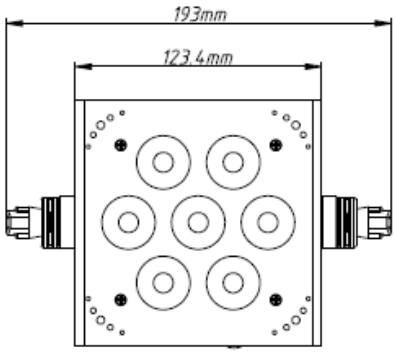
Before installing, check that the lights' fasteners and mechanical structures are in good condition and there is no apparent damage.

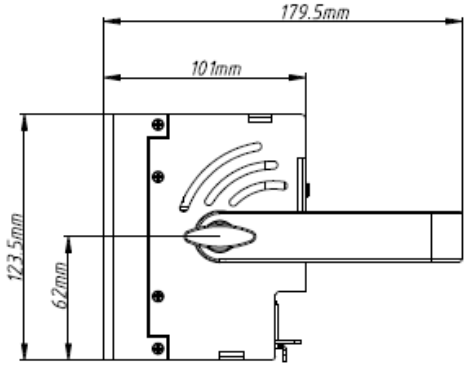
This light is designed for indoor and outdoor use; however the operating conditions should be kept below 50 degrees.

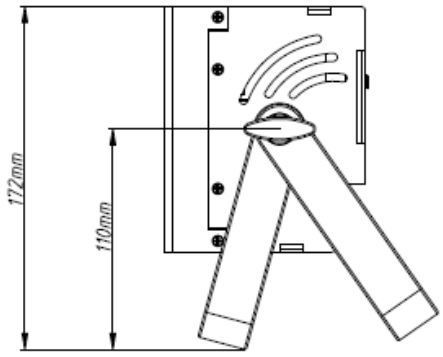
The fixtures can be mounted in any position, provided there is adequate room for ventilation. Make sure there are no inflammable and explosive items within 0.5 meters of the fixture.

The yellow/green cables are for earthing safety. These should not flicker when fixture is in use.

## 3. PRODUCT DIAGRAM



# 4. FEATURES

- High quality LED: low power consumption, high brightness, steady capability and long life
- Each color of LEDs included with 32-bit and 16666 grades dimming. R, G, B, and W can make over 16.7 million colors.
- Dimming (0%-100%), Strobe, Gradual and Jumping Change.
- DMX512 Controller, 4 button set DMX ID address with led display
- Auto run /sound activated/master slave/interconnected multi-machine controls
- Uses a switching power supply to protect the LED
- Option lens degree: 15º, 25º, 45º
- 3, 4, 5, 8, 9 CH DMX control channel optional

# 5. DMX CONTROL

## DMX CHANNEL（3CH）

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | RGB color mixing | Hue |
| 2CH | 0-255 | W Dimming 0-100% | Color Saturation |
| 3CH | 0-255 | General dimming 0-100% | Purity |

**Note:** Chromaticity refers to the visible light, such as red, green, yellow, cyan etc.
Color saturation refers to the proportion of color chromaticity possession (100% saturation means the color has reached its purest state).
Purity value refers to the brightness, when purity reaches 100% and the color is at its brightest.

## DMX CHANNEL（4CH）

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | R 0-100% | |
| 2CH | 0-255 | G 0-100% | |
| 3CH | 0-255 | B 0-100% | |
| 4CH | 0-255 | W 0-100% | |

## DMX CHANNEL（5CH）

| Channel | DMX Value | Control Function | Remarks |
|---|---|---|---|
| 1CH | 0-255 | General dimming | |
| 2CH | 0-255 | R 0-100% | |
| 3CH | 0-255 | G 0-100% | |
| 4CH | 0-255 | B 0-100% | |
| 5CH | 0-255 | W 0-100% | |

## DMX CHANNEL（8CH）

| Channel | DMX Value | Control Function | Remarks | Priority |
|---|---|---|---|---|
| 1CH | 0-255 | General dimming | | 1 |
| 2CH | 0-255 | R 0——100% | | |
| 3CH | 0-255 | G 0——100% | | |
| 4CH | 0-255 | B 0——100% | | |
| 5CH | 0-255 | W 0——100% | | |
| 6CH | 0-14 | Dimming | When 7CH>31, this function is invalid. | 2 |
| | 15-255 | Strobe Speed | | |
| 7CH | 0-31 | Invalid | | 3 |
| | 32-63 | From dark to bright | Must use CH1, 2, 3, 4, 5CH, otherwise the light won't work. From the 8CH, start the speed adjustment. | |
| | 64-95 | From bright to dark | | |
| | 96-127 | Dark-bright-dark | | |
| | 128-164 | Gradient | Speed | |

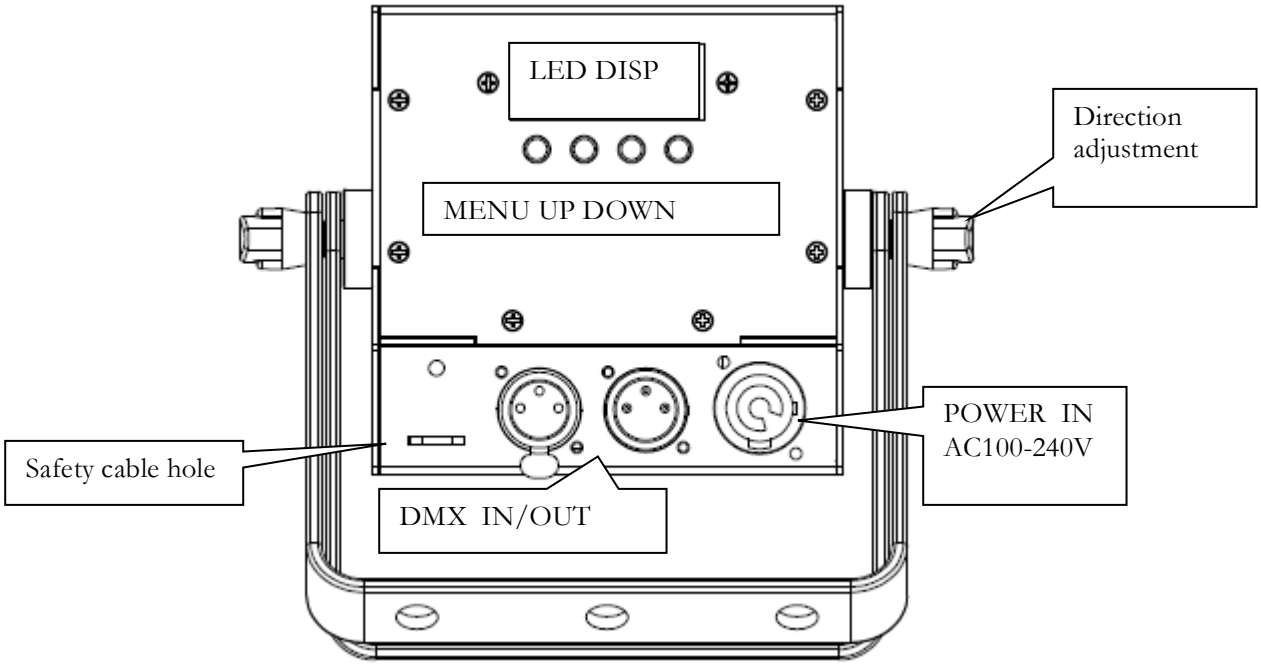
| | | | | |
|---|---|---|---|---|
| | 165-191 | Dark-Bright; Dark auto run | adjustment from 8CH | |
| | 192-223 | Colours jumping change | | |
| | 224-255 | Sound active | Only available for non-waterproof light | |
| 8CH | 0-255 | Speed adjustment （7CH） | Slow-fast | |

## DMX CHANNEL（9CH）

| Channel | DMX Value | Control Function | Remark | Priority |
|---|---|---|---|---|
| 1CH | 0-255 | (General dimming) | | 1 |
| 2CH | 0-255 | Red dimming 0-100% | | |
| 3CH | 0-255 | Green dimming 0-100% | | |
| 4CH | 0-255 | Blue dimming 0-100% | | |
| 5CH | 0-255 | White 0-100% | | |
| 6CH | 0-14 | Dimming | When 7CH>31, this function is invalid. | 2 |
| | 15-255 | Strobe Speed | | |
| 7CH | 0-31 | Invalid | | 3 |
| | 32-63 | From dark to bright | Must use CH1, 2, 3, 4, 5CH, otherwise the light won't work. From the 8CH, start the speed adjustment. | |
| | 64-95 | From bright to dark | | |
| | 96-127 | Dark-light-dark | | |
| | 128-159 | Gradient | Speed adjustment from 8CH | |
| | 160-191 | Dark-Bright; Dark auto run | | |
| | 192-223 | Colours jumping | | |

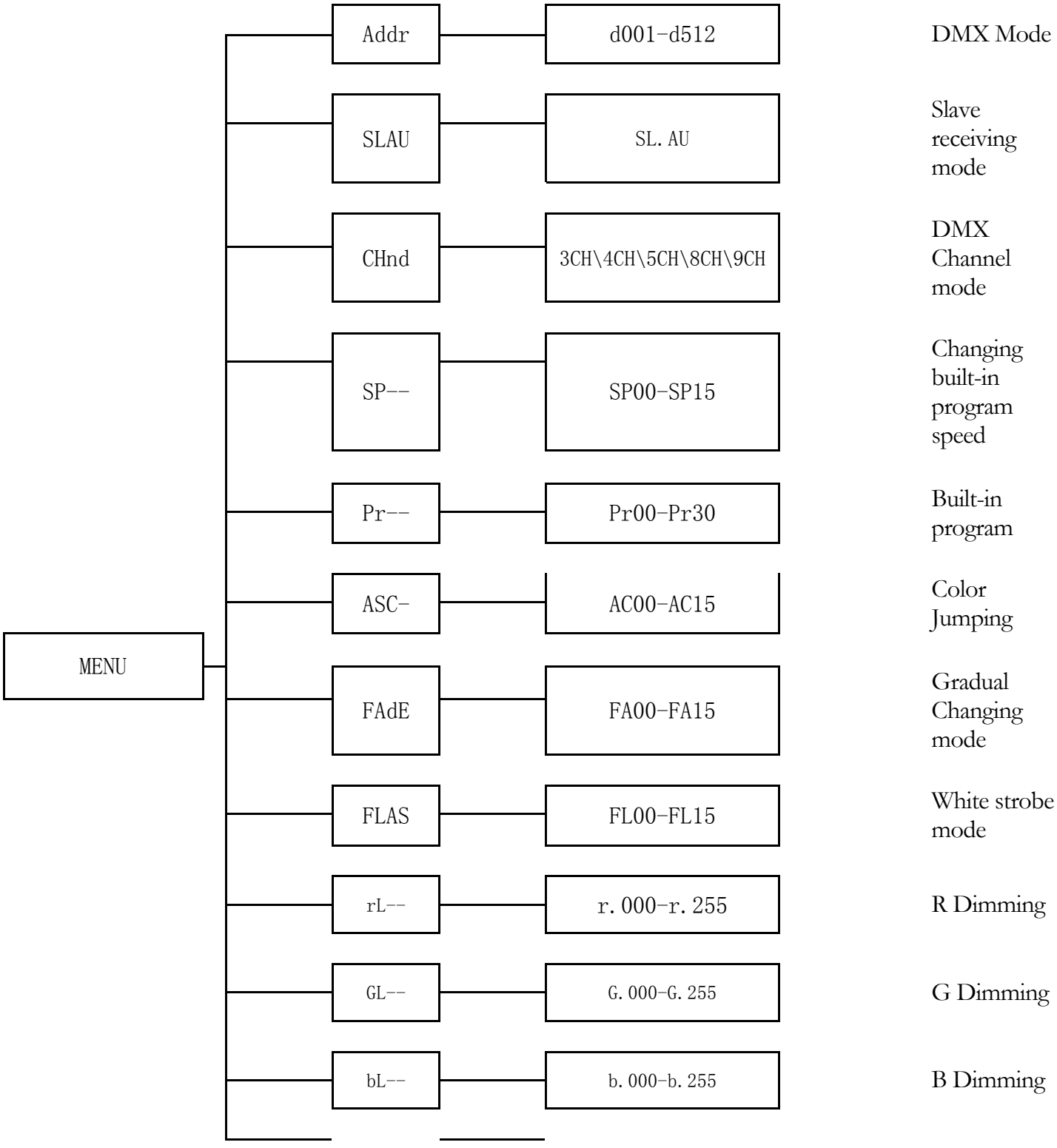
| | | | | |
|---|---|---|---|---|
| | | change | | |
| | 224-255 | Sound active | Only available for non-waterproof light | |
| 8CH | 0-255 | Speed adjustment (7CH) | Slow-fast | |
| 9CH | 0-5<br>6-55<br>56-105<br>106-155<br>156-205<br>206-255 | Set by LED display<br>DIMMER0<br>DIMMER1<br>DIMMER2<br>DIMMER3<br>DIMMER4 | | 1 |

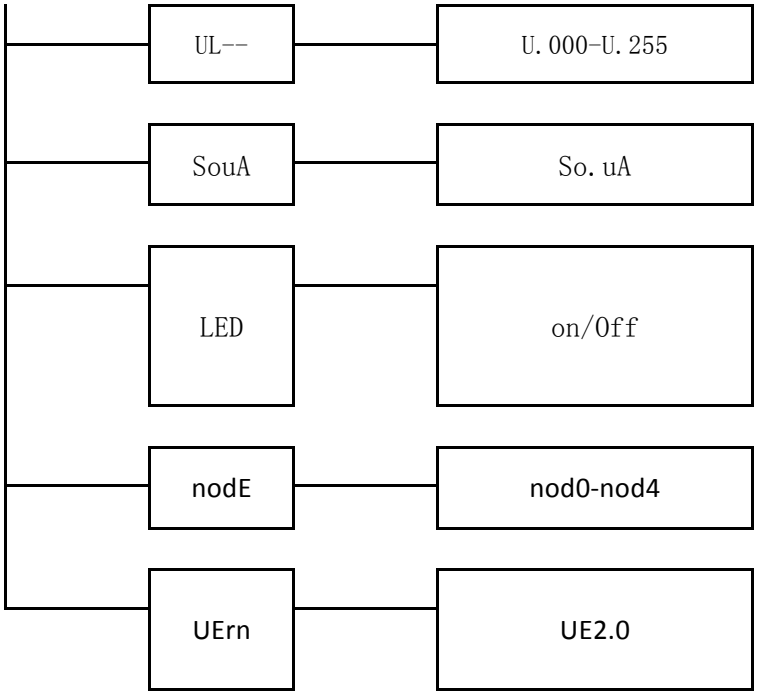
## 6. DISPLAY OPERATION




**MENU:** Access the menu or return to the previous menu option
**ENTER:** Select the current menu option
**UP:** Increase menu selection
**DOWN**： Decrease menu selection

# 7. MENU INSTRUCTIONS






W Dimming

Sound Activated

Display on/off

DMX dimmer mode

The edit No. of the software

## OPERATING INSTRUCTIONS:

MENU（UP/DOWN）+（ENTER) + (UP/DOWN）+（ENTER)

Exp: Select the DMX mode:

- Press the MENU to go back to the initial setting.
- Press UP/DOWN to display "Addr".
- Press ENTER to change the content. The display will flash.
- Press UP/DOWN to change the address code and select d001.
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop flashing.

Exp: Select DMX Channels optional mode:

- Press MENU to go back to the initial setting
- Press UP/DOWN to display "CHnd"
- Press ENTER to change the content. The display will flash
- Press UP/DOWN to select the DMX channels that you need (ie. 3CH, 4CH, 5CH and so on)
- Press ENTER to select and store the current menu options. DMX mode will bestored automatically and the screen will stop flashing.

Exp: turn off the display:

- Press MENU to go back to the initial setting
- Press UP/DOWN to display "LED"
- Press ENTER to change the content. The display will flash.
- Press UP/DOWN to select "OFF"
- Press ENTER to confirm, and then select the working mode that you desire.

**Note:** When the machine has not been in use for a period of time, the display will turn off. If the display turns off, press any button to reactivate.

## DETAILS OF IN-BUILT PROGRAM (PR- -)

- Press MENU to go back to the initial setting
- Press UP / DOWN to display "Pr---"
- Press ENTER to select. The display will flash
- Press UP / DOWN to change the address code to select pr00
- Press ENTER to select and store the current menu options. DMX mode will be stored automatically and the screen will stop flashing.

Pr14 - Pr30 Can change the content of SP and change the speed of jumping (SP00 is the fastest, SP15 is the slowest)

Pr00-Pr13：R, G, B, W single color or multi-colors lighting

Pr14-Pr28：correspond with the Pr00-Pr13 and adds the strobe function.

Pr29：Single colour jumping.

Pr30：Multiple colors jumping

# 8. OPERATING CONTROL INSTRUCTIONS

## MASTER/SLAVE

**Master setting**: To control the master the console should be in one of following modes: built-in mode, color jumping mode, fade mode, white strobe mode or manual dimming mode. The master will send out a synchronized signal, however to avoid the master signal and DMX512 signal from interfering with each other, the DMX512 signal must be cut off. When the signal cables are longer than 60 meters apart, a DMX signal amplifier is needed.

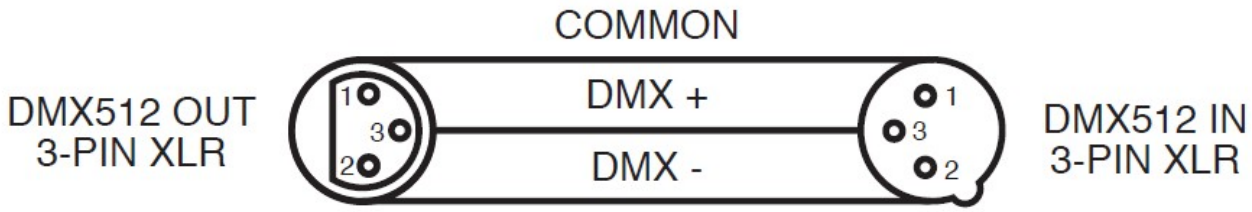
**Slave setting:** To control the slave, the settings must be in the SLAV mode and the address code should be A001 to assure the master's signals are received correctly. Only one light can be set as a Master, and the remaining must be slaves.

# 9. XLR CABLE CONNECTING

## XRL CABLE

The standard connection of the XRL should have one end connecting to the male plug, and the other connecting to the female.
As below: pin 1 - ground, pin 2 - negative signal, pin 3 - positive signal

| XLR Pin Configuration |
|---|
| Pin 1 = Ground |
| Pin 2 = Data Compliment (negative) |
| Pin 3 = Data True (positive) |



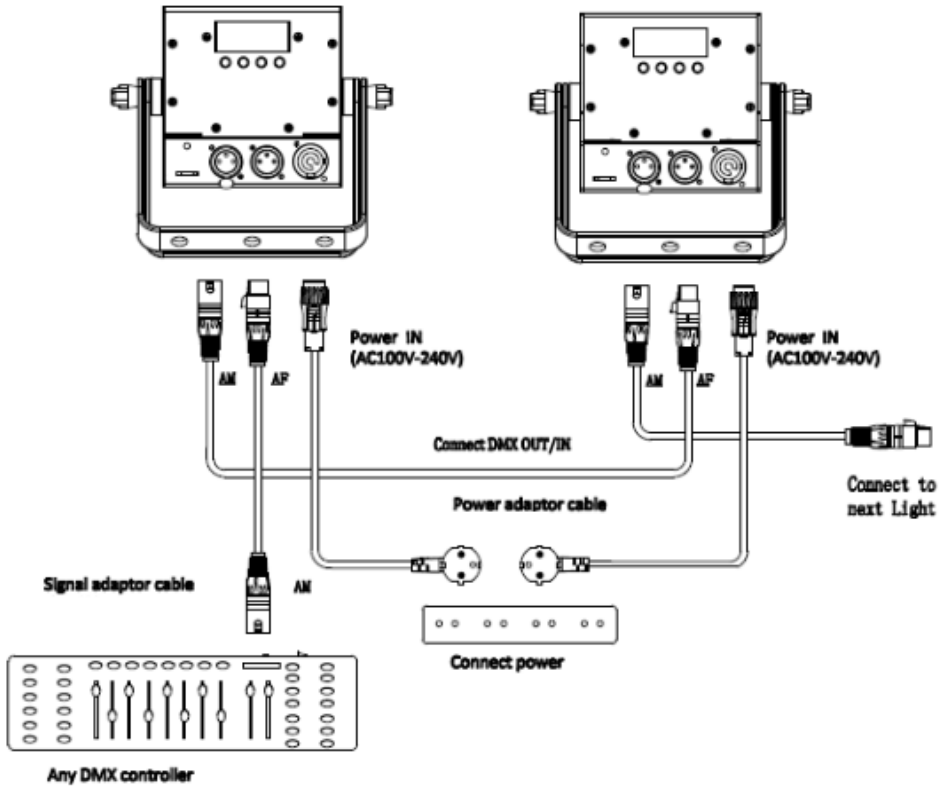
Note: In order to avoid failures and interference with signal transmission, connect a resistance 120Ω （1/4W）at the end of the DMX connection as shown below:

Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

The conversion between 3 pin and 5 pin XLR.
If the output cable of the DMX512 controller is a 5PIN, a 5PIN to 3PIN cable is necessary.

| 3-Pin XLR to 5-Pin XLR Conversion | | |
|---|---|---|
| Conductor | 3-Pin XLR Female (Out) | 5-Pin XLR Male (In) |
| Ground/Shield | Pin 1 | Pin 1 |
| Data Compliment (- signal) | Pin 2 | Pin 2 |
| Data True (+ signal) | Pin 3 | Pin 3 |
| Not Used | | Do Not Use |
| Not Used | | Do Not Use |

## 10. WIRING DIAGRAM

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# 11. TROUBLE SHOOTING

| Problem | Suggestions |
|---|---|
| The light won't turn on | Check if the power plug is working normally<br>Check if the light switch is off or on<br>Check if the power supply is working normally |
| The DMX is not controlling the light | Check if the DMX cable is connected to the light properly<br>Check if the DMX512 controller is working normally.<br>Check if the DMX cable is damaged.<br>Check if the light is in DMX mode (Addr:001). |
| The display is not working | When the power is connected, the LED should flash once. If this is not the case, check the power switch and transformer.<br>Check if the power input of the IC board is working.<br>Check if the cable connected to the display is secure.<br>Change the main board to ensure that it is working properly.<br>Change the display. |
| The LED is not light | When the electricity is connected, the LED should flash once. If this is not the case, check the power switch and transformer.<br>Check if the power input of the IC board is working.<br>Check if the cable connected to the display is secure.<br>Change the main board to ensure that it is working properly. |
| Some of the LEDs are not light | Check if the LEDs are secure (the LED is connected by a series of LEDs)<br>Use the multimeter (diode) to check if the LED lights up or not. If not, the LED will need replacing.<br>Check constant current IC is working properly (compared with the normal IC). |
| Single color LEDs | Check if the voltage of the input end of corresponding color is |

| | |
|---|---|
| are always light/not light at all | working.<br>Change the IC control board. |

**Note:** Seek advice from a professional prior to authoring any repairs

## 12. TECHNICAL SPECIFICATIONS

- Input voltage: AC 100V-264V/47-63HZ
- Output voltage: DC24V
- Voltage consumption: 56W
- Lamp Type: LED (8W)
- Lamp Spec: 4-in-1 LED（7PCS）
- Life span: 50000~100000hours
- Constant current driver: 500mA
- PWM Dimmer：》400HZ（16666 steps）
- Control Signal: DMX512, sound activated, auto run
- Control mode: stand alone/ sound activated
- Channel: 3CH、4CH、5CH、8CH、9CH
- Color effect: RGBW mixing
- Function Effect: dimmer, strobe, gradual change, sound activated
- Cooling mode: fan
- Beam Angle:15°, 25°,45°
- Anti-electricity intension: 1.5KV
- Insulation Resistance: ＞２M□
- Size: 229*165*228mm
- N.W: 3.3 KG